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	T -511			DOCUMENTS		
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (F known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		^{US-} 4,839,714	06/13/1989	Doehler	1	
		^{US-} 4,926,226	05/15/1990	Heremans	1	
		^{US-} 4,980,892	12/25/1990	Cunningham	1	
		^{US-} 5,576,249	11/19/1996	Wu	1	
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		FORE	IGN PATENT DOCU	MENTS		
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		L. ESAKI et al, Superlattice and Negative Differential Conductivity in Semiconductors, IBM J. of Research and Development, volume 14, page 61, 1970.	
		M. I. OVSYANNIKOV et al, Periodic Semiconductor Structures, Soviet Physics - Semiconductors, volume 4, no. 12, page 1919, 1970.	
		K.PLOOG et al, The Use of Si and Be Impurities for Novel Periodic Doping Structures In GaAs Grown by Molecular Beam Epitaxy, J. Electrochemical Soc., vol. 128, pg. 400, 1981.	
		Y. YAMAUCHI et al, Photoluminescence of InP Doping Superlattice Grown by Vapor Phase Epitaxy, Japanese Journal of Applied Physics, volume 23, number 10, page L785, 1984.	
		W. JANTSCH et al, Anomalous Transport in PbTe Doping Superlattices, Applied Physics Letters, volume 47, number 7, page 738, 1985.	
		M. KITAMURA et al, Doping Superlattices in GaP, Journal of Applied Physics, volume 61, number 4, page 1533, 1987.	
		L. C. KIMERLING, New Developments in Defect Studies in Semiconductors, IEEE Transactions on Nuclear Science, volume NS-23, number 6, page 1497, Dec. 1976.	
		L.C. KIMERLING et al, Electronically Controlled Reactions of Interstitial Iron in Silicon, Physica 116B, page 297, 1983.	

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